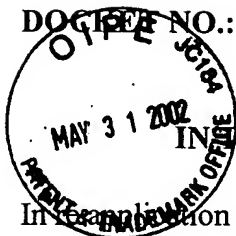


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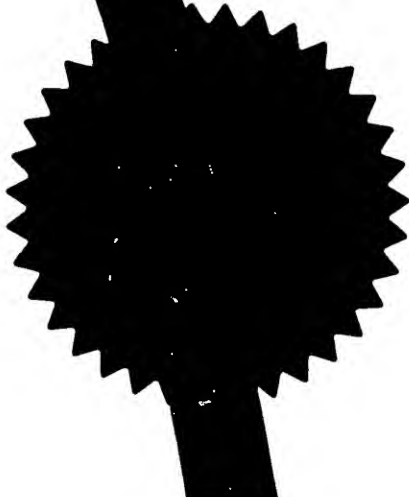
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Electronic transactions

The present invention relates to electronic transactions, and
 5 in particular, but not exclusively, to exchange of
 transaction information between a user equipment and another
 party.

Various mobile or portable user equipment such as mobile
 10 telephones or portable computers are known by the skilled
 person. A mobile user equipment may be capable of
 communication via a wireless interface with another device
 such as a base station of a mobile telecommunication network
 or any other station. Such a mobile user equipment will be
 15 referred to in the following as a mobile station. The mobile
 station can be adapted for voice, text message or data
 communication via the wireless link.

The mobile user equipment could also be used for exchange of
 20 confidential information such as exchange of personal
 information required for transactions between two or more
 parties. The possible transactions could include, without
 restricting to these, transactions such as ordering of goods
 and/or services, transactions that associate with payment of
 25 purchased goods and/or services, provision of a receipt, or
 transactions associated with banking services and so on.

The mobile user equipment could also be used for exchange
 and/or storage of other information such as personal
 30 identification data, passport data and so on. It shall thus
 be appreciated that in this specification the term
 'transaction' is not restricted to commercial transactions
 between parties but instead the term transaction refers to

exchange of any information that may of confidential or personal nature.

To enable electronic transactions between two entities a
5 common transaction mechanism is required. In general term, a
typical transaction mechanism can be defined to comprise
features such as the communication media between the parties
of the transaction, transaction protocols and parameters,
content transfer and presentation formats, security
10 mechanisms and other functions that may also associate with
an electronic transaction between the parties.

In a typical transaction the user needs to provide the other
party, such a merchant of goods and/or services with at least
15 some user information, such as a name and address or other
contact information of the user. Other confidential
information such as credit card number or a personal identity
code (e.g. a social security number or national insurance
code) may also be required. Typically this information is
20 inserted i.e. filled in an appropriate form. The form may be
a paper document or an electronic document such as a markup
language document.

The users may find the insertion of the information
25 inconvenient and at least time consuming. It is also possible
that a user may type in incorrect information, e.g. an
incorrect credit card number. Furthermore, any means that
could improve security of transactions while being easy to
use would be welcomed by the users of transaction devices.

30

Therefore the inventors have found that it could be
advantageous if a transaction system could be provided which
could free the user from manually inserting confidential,

personal or other information in a data form or similar means. It could be even more advantageous if the automatic or semiautomatic data insertion procedure should not prejudice the security of the confidential or personal information of the user.

Embodiments of the present invention aim to address one or several of the above problems or unsolved issues that associate with exchange of transaction information.

10

According to one aspect of the present invention, there is provided a method of accomplishing a transaction by user equipment, the method comprising: insertion of transaction information in at least one data field of an information entity associated with the transaction based on information available at the user equipment; and transmitting the information entity from the user equipment over a wireless interface.

20 According to a further embodiment comprising said insertion of transaction information is authorised by authorisation means. The authorisation may be based on unique identity code or identity module associated with the user equipment. The authorisation may be accomplished at the user equipment and/or by a service provider.

25

The user information insertion may occur automatically in response to a predefined event.

30 At least part of the transaction information to be inserted in the information entity may be obtained from a storage means provided at the user equipment. At least part of the

transaction information to be inserted in the information entity may be obtained from another information entity.

Said information entity may be transported by means of a
5 standardised data entity.

According to another aspect of the present invention there is provided a user equipment comprising: processing means for insertion transaction information available for the
10 processing means in at least one data field of an information entity that associates with an electronic transaction; and transmitter means for transmitting the information entity from the user equipment to a co-operative device over a wireless interface.

15 According to another aspect of the present invention there is provided a transaction system comprising: user equipment adapted to exchange transaction information with another party of a transaction; storage means for storing
20 information; processing means for fetching information from the storage means and for insertion of the information in at least one data field of a data entity associated with said transaction; and communication means for transmitting the data entity from the user equipment to a co-operative device
25 over a wireless interface.

The embodiments of the invention may provide an arrangement wherein confidential information can be automatically or semiautomatically exchanged between parties of a transaction.
30 Thus the user friendliness may be increased. The user may be freed from inserting at least a part of information (e.g. credit card details) he/she would be required to give if the embodiments were not in use at the user equipment. The

information inserting procedure may be made faster by means of the embodiments. A more detailed embodiment provides improved security for by means of authorisation procedures.

5 For better understanding of the present invention, reference will now be made by way of example to the accompanying drawings in which:

Figure 1 shows a mobile user equipment that can be used in the embodiments of the present invention;

10 Figure 2 illustrates system architecture for an embodiment;

Figure 3 is a flowchart illustrating an embodiment of the present invention;

15 Figures 4 and 5 are flowcharts illustrating further embodiments of the present invention; and

Figure 6 shows an embodiment of the present invention.

Figure 1 shows a mobile user equipment that may be used in the embodiments of the present invention. More particularly,
20 Figure 1 is a partially sectioned view of a mobile station 1 that may be used for communication over a wireless interface.

If the mobile station 1 subscribes to a cellular mobile communication network the mobile station 1 may be adapted to
25 communicate with a transceiver entity of the mobile communication network. The transceiver entity may comprise a base station (BTS) 10 of the cellular system or any other appropriate element with which the mobile station may communicate with over a wireless interface. Possible
30 transceivers entities are known and are thus not illustrated or described in any greater detail herein.

The mobile station 1 may be provided with user interface means comprising a display 2 and input means. The skilled person is familiar with the user interface of a mobile station and therefore these will not be described in more
5 detail herein. It is sufficient to note that the input means may be formed by control buttons 3 or they may include e.g. voice activation or touch screen means and so on. The mobile station 1 may also be provided with communication interface means such as antenna means for communication with the
10 transceiver entity 10. The antenna means may comprise an external antenna element 4, or then built-in or integrated antenna means may be used. It should be appreciated that antenna means are not an essential requirement in the embodiments of the present invention.

15
The mobile station 1 is adapted to facilitate use thereof for electronic transactions and for exchange of confidential user information between the mobile station and a remote party. For example, the user of the mobile station 1 may pay for
20 various goods and/or services by means of the mobile station 1 or access various banking services by the mobile station 1. To enable this the mobile station 1 may be provided with a credit card type transaction facility or account means wherein the user may load money. The balance can then be
25 deducted from the account means whenever a payment is made. The mobile station 1 may also be used for transactions that associate with negotiating a purchase of goods and/or services, receiving a receipt of a purchase or with any other
30 operation where information associated with a transaction needs to be exchanged between the user and another party. Examples of other possibilities include use of the mobile station 1 for transactions that associate betting or insurance services. Possible transaction data processing

means will be described in more detail with reference to Figure 2 after the following description of the other elements of the Figure 1 arrangement.

5 The mobile station 1 is shown to comprise a processor means 6 and a data storage means 7. The processor means 6 is for processing and/or controlling transactions between the mobile station and other parties. The processor means 6 may be integrated with at least one other processor function of the
10 mobile station 1. The processor means may alternatively be adapted to process data that associates with the transaction processing function only. The data storage means 7 may also be either integrated with the other functions of the mobile station 1 or be assigned solely for the transaction data
15 processing functions. Separation of the transaction functions from other functions of the mobile station 1 may be preferred e.g. for security or usability reasons. The above referenced account means may be implemented by means of the data storage means 7.

20 Figure 1 shows an arrangement where said other party comprises a service provider entity 12. As mentioned above, the mobile user equipment 1 may be a mobile station that subscribes to a mobile communication network. In such a case
25 communication between the network and the mobile station 1 occurs over a wireless interface 11, as is indicated by the double headed arrow. The communication network may thus provide a communication media between the mobile station 1 and the service provider entity 12 for the electronic
30 transactions.

Communication over the wireless interface between the mobile station and a base station may be based on any appropriate

technique and wireless communication protocol. The possible protocols include, without limiting to these, a Short Message Service message (SMS), WAP (wireless application protocol) messages, email messages or any other messages that are based
5 on the Internet protocol (IP).

The service provider entity 12 may comprise a site 14 that may comprise a page that has been implemented based e.g. on an appropriate markup language. The possible site
10 implementations are known by the person skilled in the art. Examples of the markup languages include WML (Wireless Markup Language), HTML (Hypertext Markup Language), and XHTML (extended hypertext markup language).

15 The mobile station 1 may load data from the markup language page 14. The user may be enabled to request or download e.g. an order form or questionnaire from the site 14. Alternatively the service provider entity 12 may push data towards the user e.g. by means of a server 13. Data may be
20 transported between the mobile station and the service provider entity 12 based on an appropriate messaging protocol.

The functioning of elements that associate with the operation
25 of transaction means of the mobile user equipment will now be explained by a way of example with reference to Figure 2. In this example the transaction means provided at the user equipment for processing the transaction functionality are referred to by the term 'electronic wallet'.

30

Figure 2 discloses a possible architecture for a system providing means for modifying the operation of an electronic wallet function in accordance with an embodiment of the

present the invention. The electronic wallet function is designated by block 20. The electronic wallet block 20 is shown to comprise different subfunction blocks 21 to 24. These function blocks are shown to illustrate that an
5 electronic transaction facility may provide several different usage scenarios and that these may be implemented by means of different functions of the wallet block 20. It shall be appreciated that these functions are not necessary in all applications. Other subfunctions may also be provided in the
10 wallet block 20.

More particularly, Figure 2 shows blocks such as 'provision' 21, 'tickets' 22, 'receipt' 23 and 'dynamic template' 24. From these exemplifying function blocks the provision block
15 21 refers to an ability of the mobile station 1 to update its own configuration based on information stored in the wallet function. The provision block 21 may contain required user information or be enabled to access the user information. The user information may be stored in the memory of the mobile
20 station 1 or on a smart card. Examples of the smart cards include the subscriber identity module (SIM) or secondary smart card. Multiple sets of information may be stored in the storage. For example, credit card data may be stored for two different credit card companies.

25 The tickets function block 22 refers to entries that result from a transaction. These entries may represent a certain value that may be used for another transaction. For example, an entrance ticket can be acquired to the mobile station via
30 a wireless connection from a ticket issuer. The ticket may then be redeemed later on at an entrance gate thereby enabling use of the mobile station as an authorisation device for the entrance. The function block receipt 23 may be for

processing information associated with a proof of transaction. The template function block 24 may be for storing information based on which the way the wallet function interacts with its environment can be modified. The
5 dynamic template block 24 may contain information regarding rules, references, parameters and so on that are required for the operation of the electronic wallet function. That is, the information stored in the dynamic template block 24 can be used in the control of the electronic wallet function.

10

Figure 2 shows also three function blocks 28, 29 and 30. These blocks will be referred to commonly in the following by definition electronic wallet management function. At least a part of the functionality of the electronic wallet management
15 function may be controlled by the management service provider 12 of Figure 1.

Browser block 26 provided in the mobile station is also shown. The browser 26 may be used by the user for
20 communication with the server of the service provider. The user may thus use the browser to pull i.e. download a form from a service provider server or similar source. The user equipment may e.g. fetch an order form from the server, fill it in and transmit the completed order form back to the
25 server to order goods specified in the form. The user may also use the browser for searching possible new service providers, goods and/or services he may be interested in.

Figure 2 shows also a service provider function block 12. The
30 service provider function is shown to include a further block 14 that designates the form the user may download by means of the browser function 26. The form is shown to include data fields 15 to be filed in by the user equipment 1.

Information that may need to be inserted in a form may include, for example, the name and address of the user, credit card number, passport number, telephone number,
5 personal identity code and so on. This information may be stored in the wallet block 20.

In a preferred embodiment the wallet function is adapted to insert information in correct data fields 15 of the form.
10 Although the automatic insertion of information is accomplished by the wallet function, the user may experience this as it would be done by the browser 26. The filling may alternatively be accomplished by the browser function that is adapted to analyse the received data entity containing a
15 document that requires insertion of information and based on said analysis to fill the required information.

The browser function may also launch a Electronic Commerce Modelling Language (ECML) parser of the wallet function 20 to
20 fill in the required data in the form received from the service provider server. The ECML parser is adapted to identify ECML modelling language fields in a downloaded content page and to fill these fields with appropriate information available for the wallet function. That is, the
25 parser may e.g. detect a field 'address, home' and look if user information tied to this field is available. If the information is available, the parser fills the field with the data and continues to next field.

30 The communication between the mobile station and the service provider may be based on standardised data entities. An example of such data entities is an electronic data card

based on the so called the Electronic Commerce Modelling Language (ECML). The ECML is an open specification that is indented for use in the exchange of purchase related information such as order and payment information in the World Wide Web (WWW). The EMCL defines also a way how specific field information like names, addresses and credit card information can be formatted and transported in the WWW in a standardised manner. Thus the ECML data card format can be used for the transportation of information between the service provider entity and the mobile station. The mobile station may be adapted to automatically recognise that the incoming data comprises a ECML data card form and to automatically fill in the data fields thereof in response to this recognition.

Another example of a possible data entity for the exchange of data between the mobile station and the co-operative device is the so called electronic business card. The electronic business card content type, that is sometimes referred to as digital business card content type, is known by the skilled person. The electronic business cards are designed to be used instead of conventional business cards and may be used for transmitting and interchanging contact information and other information regarding a person or a group of persons to a user terminal. The user terminal may be an Internet enabled computer terminal, a mobile station, hand held organiser, personal information manager, personal data assistant, pager, fax, office equipment, and so on. That is, the user terminal may be any device capable of processing data in electronic form. The destination terminal may also store the information it received on the electronic business card. The data that may be transmitted on conventional electronic business cards

may include simple text, and also elements like pictures, company logos, Web addresses, and so on.

An example of the electronic business card applications available for the public is marketed under name 'vCard'. For example, in the WAP the content type vCard is a mandatory feature. The vCard may be implemented on a WAP/WWW page as an object. If data is loaded to a WAP page at the service provider server, the fields of the vCard content type are mapped to WAP page.

A still further example of formats that may be used for the data entity is a format based on an appropriate electronic calendar format. An example of the electronic calendar formats is the vCal.

A data entity can be adapted to carry certain type of information in a certain data field thereof. Therefore it is possible to adapt the mobile station to recognise the specific fields and to insert appropriate information to the fields. Information may be inserted in the fields of the electronic data card e.g. in the following manner:

Field	Content	Example
NAME	Name of the user plus any other identity information that needs to be known	"John Smith"
Content	A data field including e.g. a credit card number	"Card No"; "expiry date"
Address	Delivery address information	"Street n, city xyz"
KEY	Signature	F4f9hergn7hgsaw7fa 87gUyg8gytv4luFyt

The signature provides additional security for the data transportation and against fraudulent use of e.g. credit card

numbers. The digital signature may be based on any appropriate authorisation technique, such as public and/or private keys. The skilled person is aware of these techniques and they will not be explained in more detail herein.

5

In a specific embodiment the insertion of data in the data fields is authorised based on an identification code. The identification code may be a code that associates with the user equipment. For example, the user equipment verifies internally that the automatic information insertion procedure is allowed (see Figure 4). According to another possibility user equipment may be identified by the service provider for the authentication purposes based on the identification code (see Figure 5).

15

Examples of the possible means based on which the authorisation can be accomplished include, without limiting to these, Subscriber Identity Module (SIM), Number Assignment Module (NAM), and WAP Identity Module (WIM). The authorisation may also be based on identity codes such as a personal identity number (PIN) or a unique product code assigned for each user equipment, such as the IMEI (International Mobile station Equipment Identity), the international mobile subscriber identity (IMSI) code and so on.

25

Figure 4 illustrates a verification operation that is accomplished at the user equipment. The arrangement may be such that the PIN code of the user equipment or a user specific PIN code is required for the authorisation of the automatic form filling. The user equipment may ask for the PIN code every time the controller of the wallet function recognises that a form is to be filled in. The arrangement

30

may also be such that automatic form filling is in an authorised state if the PIN code was input when the user equipment was switched on or if the PIN code has been input within a predefined time before the automatic filling is required.

Each transaction may also require the PIN to be inserted to make sure that the user has accepted the specific transaction. The acceptance of the automatic form filling may be asked each time from the user who then inputs the PIN into the user equipment. The data fields of the form may then be filled in. A digital signature may also be attached to the form, if it has a field for it. The server may then check the signature to see that the user has accepted the transaction and to verify the user identity. It is thus possible to use both of the methods illustrated by Figures 4 and 5 for a single form filling operation.

According to an embodiment the form itself includes a security indicator that is verified at the user equipment. If the form is determined as being sent by a trusted party, the wallet function of the user equipment automatically fills in the form. The security indication may comprise e.g. a key of a key pair, wherein the other key associates with the user equipment.

If the automatic filling is rejected, the user may be provided with a possibility to fill in the form manually.

Figure 5 shows an embodiment where the authorisation is arranged to occur at the service provider. The wallet function may attach an identification code such as an appropriate equipment identifier to the form. The service

provider may then compare the identification code with a record of codes. Based on the verification the service provider may then either accept or reject the information supplied on the form. The service provider may have been
5 provided with information associated with the identification code e.g. by the network operator the user equipment subscribes to. The user may also provide the code to the service provider e.g. when signing a service agreement or when using the service for the first time.

10

Any other appropriate authorisation techniques such as fingerprints or eye retina scan may also be used for this purpose.

15 According to an embodiment the user has a dedicated filling function somewhere in the communication network. The dedicated filling function may be a server that is adapted to perform the filling operation for the user. When a form is received at the user equipment, the user may simply redirect
20 the form to the server. The server may then ask the user for approval, although this is not necessary in all embodiments. The server fills in the form and sends it to the other party.

Figure 6 illustrates an embodiment wherein transaction
25 information can be inserted into a form or similar data entity based on information available in another form. The information may be copied from a first form to a second form at the user equipment. By means of this the user is freed from manual insertion of information that is already
30 available in electronic format. The user may be freed from inserting same information twice. If a form received at the user equipment included information required by another form the user does not need to fill in the information at all. It

is enough if he/she copies the information from one form to another form or several other forms.

More particularly, Figure 6 shows an embodiment wherein
5 shipping information is copied from a shipping particulars form to a billing particulars form (or vice versa or to a third form). The boxes 61, 62 and 63 illustrate displays that are shown to the user by display means of the user equipment. The displays 61 and 62 are for asking a permission to copy
10 the information from the two different forms. Display 63 is for confirming what information is to be copied.

The two forms may include one or more field that associate with the same information (e.g. address, product ID, order
15 No. and so on). For example, the shipping details and billing details forma may contain at least one identical information field. The user may select by display 63 one or more fields that is to be copied e.g. from the form 61 to form 62.

20 For example, the user may select a field of the form 62 to filled in and if the user equipment detects that the information is already available at the form 61 the user equipment may display a confirmation query 'COPY FROM BILLING DETAILS?'

25

The user may also select whether all information from a form is copied to another form or only selected information is copied. If the user opt to copy only selected fields the field may be displayed to him/her one by one, and the user
30 needs to confirm the copying for each field. After copying a field from the billing details the user equipment returns to shipping details to enable filling in of a next field. If all fields of the shipping details form are to be filled based on

information on the billing details form, said fields are filled in with the copied information before the user equipment returns to the shipping details display.

- 5 It is possible to set the user equipment such that all possible old information in the form is replaced. The user equipment may prompt for a confirmation before replacing any old information.
- 10 The user equipment may also check if the information is available before continuing the information insertion procedure. If a field is empty at the source document (e.g. at the billing detail form), no query is launched.
- 15 In may be advantageous if the copying of information from a first form to any other forms may be accomplished only within a card set, not between different sets. This means that it is possible to adapt the information filling function to operate such that information from a document of a service provider
- 20 (say credit card company 1) may not be copied into a document by another service provider (say credit card company 2).

Referring now again to Figure 1, according to a further embodiment the mobile station 1 be provided with a wireless

25 transmitter and/or receiver module 5. The module 5 is not for communication with the base station 10 of the cellular communication system, but is instead for the provision of a local communication link with a co-operative device.

- 30 In this embodiment the data forms or similar entities are not transmitted between the user equipment 1 and the service provider via the communication network. Instead, the communication occurs via local wireless links.

The module 5 may be based on use of infrared links, short range radio links, and so on. The infrared link may be based e.g. on the IrDA. The IrDA is a standard defined by Infrared Data Association. The short range radio link may be based e.g. on the Bluetooth™ protocol. The term Bluetooth™ refers to a technology specification by Bluetooth special interest group (SIG) for small factor, low-cost, short range radio links (SRRL) between various devices provided with a Bluetooth™ wireless modules. Another example of the short range interfaces is based on technology used for the so called contactless cards or proximity cards. A short range link for proximity cards is defined e.g. by the International Standardisation Organisation (ISO) specification No. ISO 14443.

According to a further embodiment the user equipment uses different communication means for the transportation of the form or other information entity for the reception and transmission thereof. In other words, the user equipment receives the information entity via a first type of interface and returns the information entity via a second type of interface. For example, the form may be provided to the user equipment by means of a WAP communication. The completed form may then be returned via Bluetooth™ interface.

The information entity may be filled in accordance with predefined set of instructions. For example, the user equipment may be provided with a user profile based on which different events may be responded differently. The instructions may e.g. define what information is to be inserted in the information entity in response to an event and which fields are to be left blank. The instructions may

also define the source of information to be used for a certain type of information entities, the level of "privacy" to be used for different information entities and so on.

5 It should be appreciated that whilst embodiments of the present invention have been described in relation to mobile user equipment, embodiments of the present invention are applicable to any other suitable type of user equipment capable of communication over a wireless interface.

10

It is also noted herein that while the above describes exemplifying embodiments of the invention, there are several variations and modifications which may be made to the disclosed solution without departing from the scope of the
15 present invention as defined in the appended claims.

Claims

1. A method of accomplishing a transaction by user equipment, the method comprising:
 - 5 insertion of transaction information in at least one data field of an information entity associated with the transaction based on information available at the user equipment; and
 - transmitting the information entity from the user
 - 10 equipment over a wireless interface.
2. A method as claimed in claim 1, comprising step of authorising said insertion of transaction information.
- 15 3. A method as claimed in claim 2, wherein the authorisation is based on unique identity code associated with the user equipment.
4. A method as claimed in claim 2 or 3, wherein the
 - 20 authorisation is based on one of the following means: personal identity number (PIN); Subscriber Identity Module (SIM); Number Assignment Module (NAM); Wireless Application Protocol (WAP) Identity Module (WIM); a unique product code of the user equipment; an international mobile subscriber
 - 25 identity (IMSI) code.
5. A method as claimed in any of claims 2 to 4, wherein the authorisation is accomplished at the user equipment.
- 30 6. A method as claimed in any of claims 2 to 5, wherein the authorisation is accomplished by a service provider.

7. A method as claimed in any preceding claim, wherein the user information insertion occurs automatically in response to a predefined event.

5 8. A method as claimed in claim 7, wherein the event comprises reception of the information entity.

9. A method as claimed in any preceding claim, wherein at least part of the transaction information to be inserted in
10 the information entity is obtained from a storage means provided at the user equipment.

10. A method as claimed in any preceding claim, wherein at least part of the transaction information to be inserted in
15 the information entity is obtained from another information entity available for the user equipment.

11. A method as claimed in any preceding claim, wherein the user gives a confirmation before said step of inserting
20 information in the information entity.

12. A method as claimed in any preceding claim, wherein the information is inserted by transaction processing means of the user equipment.
25

13. A method as claimed in any preceding claim, wherein the user equipment inserts information in a data field of the information entity in a predefined manner.

30 14. A method as claimed in any preceding claim, wherein the information entity is filled in accordance with predefined instructions.

15. A method as claimed in claim 14, wherein the instructions define the information that is to be inserted in the information entity in response to an event.

5 16. A method as claimed in any preceding claim, wherein said information entity is transported by means of a standardised data entity.

10 17. A method as claimed in claim 16, wherein said data entity is based on the Electronic Commerce Modelling Language.

18. A method as claimed in claim 16, wherein said data entity is based on an electronic data card format.

15

19. A method as claimed in claim 18, wherein the electronic data card format comprises an electronic business card or an electronic calendar format.

20 20. A method as claimed in any preceding claim, wherein the user equipment communicates transaction information via an interface that is based on at least one of the following: short message service (SMS); wireless application protocol (WAP); internet protocol (IP); a short range radio link; a
25 proximity card type interface; an infrared link.

21. A method as claimed in claim 20, wherein the user equipment receives the information entity via a first type of interface and returns the information entity via a second
30 type of interface.

22. A method as claimed in any preceding claim, wherein the user equipment communicates with a base station of a cellular communication network.

5 23. A user equipment comprising:

processing means for insertion transaction information available for the processing means in at least one data field of an information entity that associates with an electronic transaction; and

10 transmitter means for transmitting the information entity from the user equipment to a co-operative device over a wireless interface.

24. A user equipment as claimed in claim 23, comprising
15 storage means for storing the transaction information, wherein the processing means are adapted to fetch information from said storage means and to insert said information from the storage means into the information entity.

20 25. A user equipment as claimed in claim 23 or 24, wherein the processing means are adapted to obtain information from at least one other information entity and to insert said information from the at least one other information entity into said information entity that is the subject of the
25 information insertion procedure.

26. A user equipment as claimed in any of claims 23 to 25, comprising authorisation means arranged to authorise said
insertion of information.

30

27. A transaction system comprising:

user equipment adapted to exchange transaction information with another party of a transaction;

storage means for storing information;

processing means for fetching information from the
storage means and for insertion of the information in at
least one data field of a data entity associated with said
5 transaction; and

communication means for transmitting the data entity
from the user equipment to a co-operative device over a
wireless interface.

10 28. A system as claimed in claim 27, wherein the processing
means are provided at the user equipment.

29. A system as claimed in claim 27, wherein the processing
means are provided at the co-operative device.

Abstract

A method of accomplishing a transaction by a user equipment (1). Transaction information is inserted in at least one data field of an information entity that associates with the transaction based on information available at the user equipment. The information entity is then transmitted from the user equipment (1) over a wireless interface (11). The insertion may require authorisation. The insertion may occur automatically in response to a predefined event.

(Fig. 1)

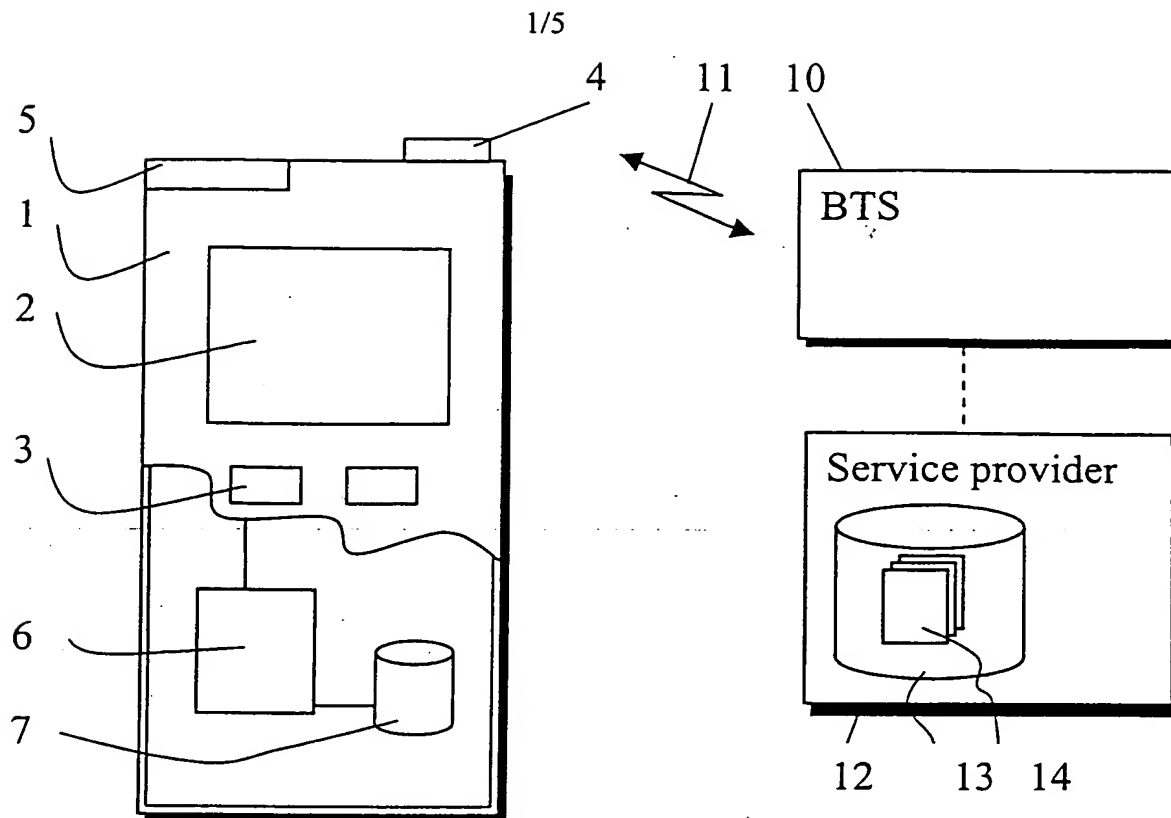


Fig. 1

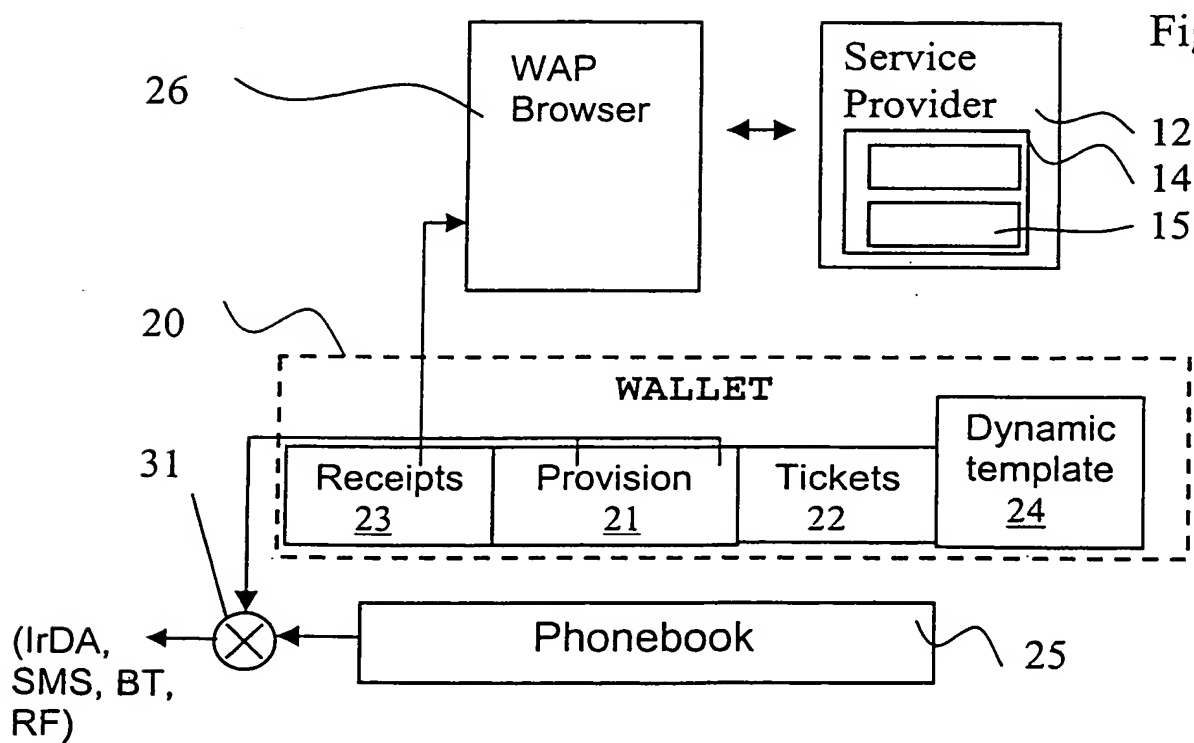


Fig. 2

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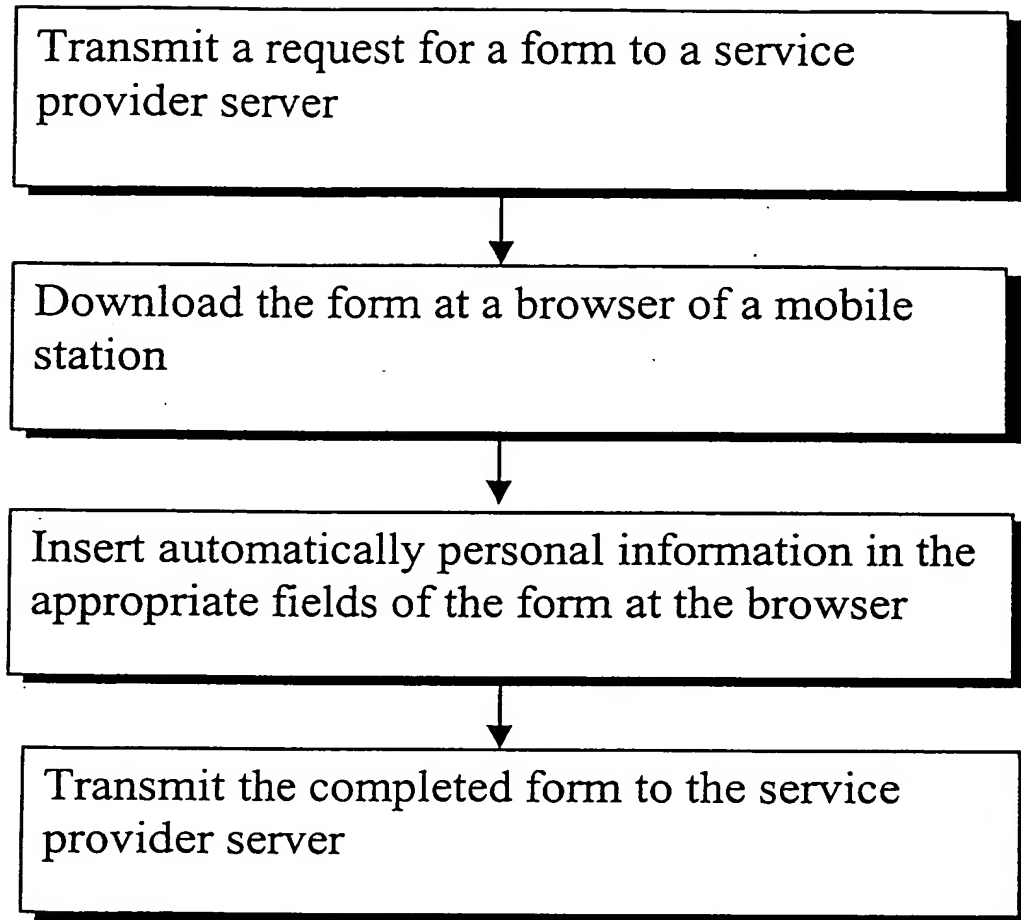


Fig. 3

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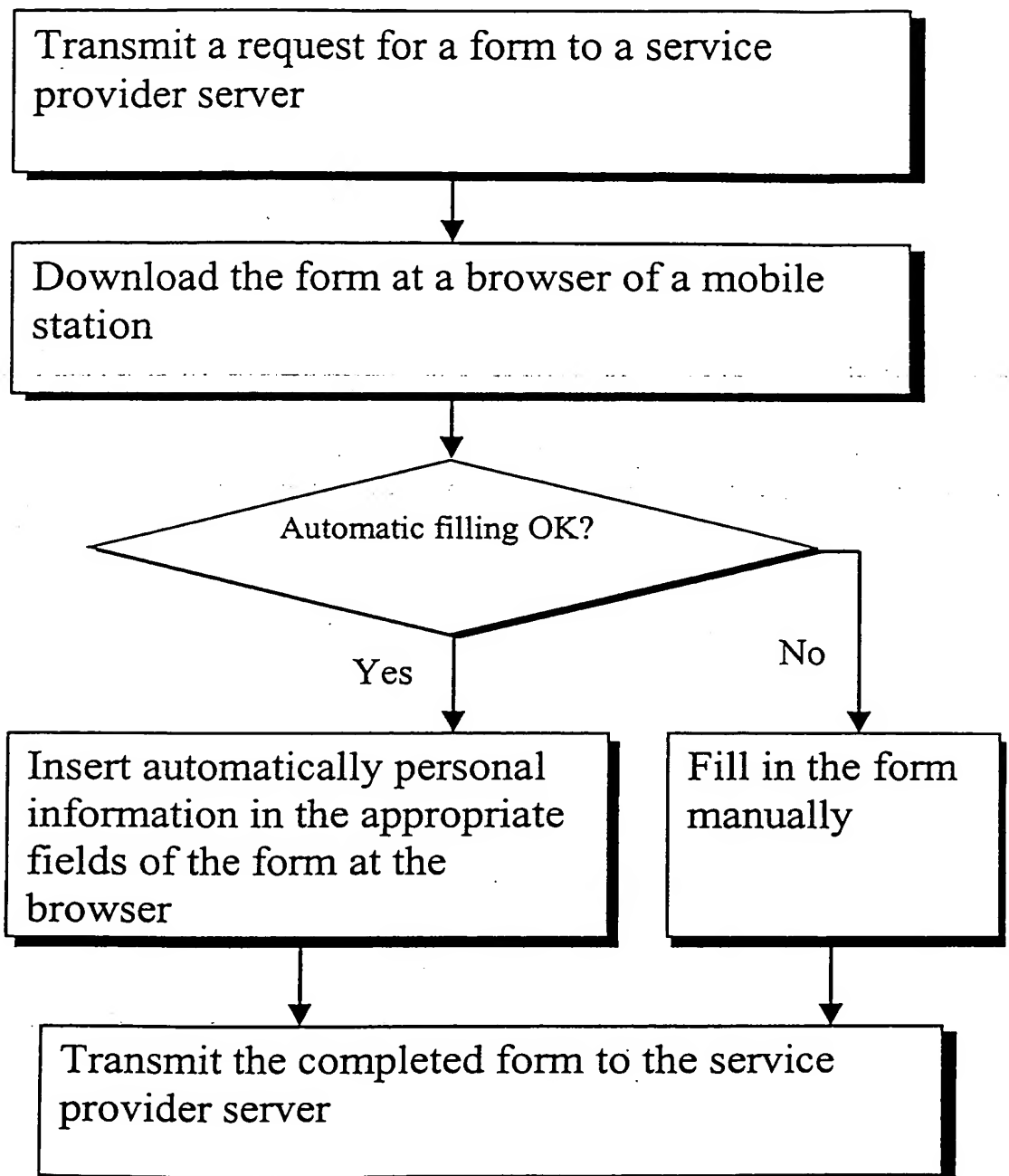


Fig. 4

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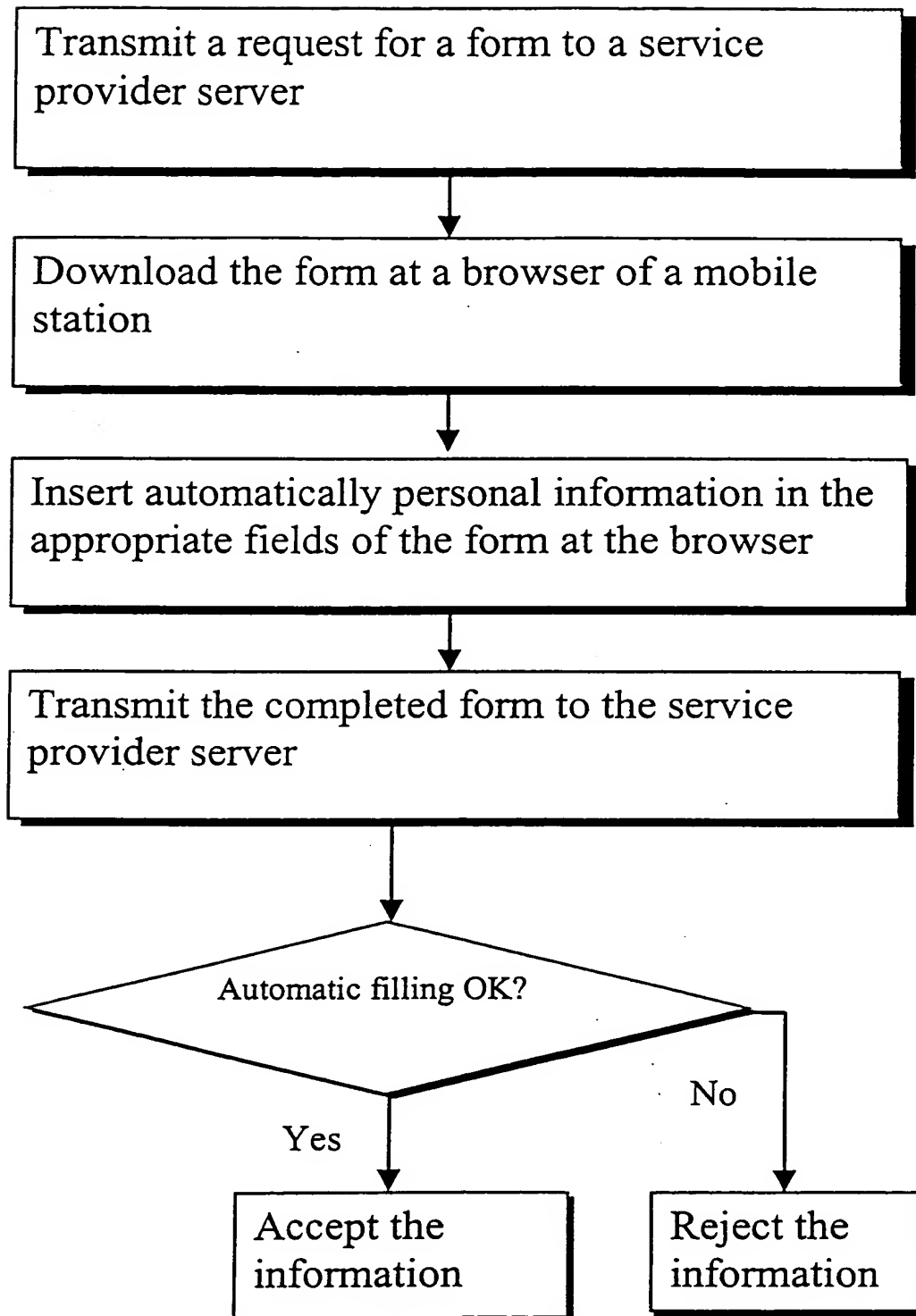


Fig. 5

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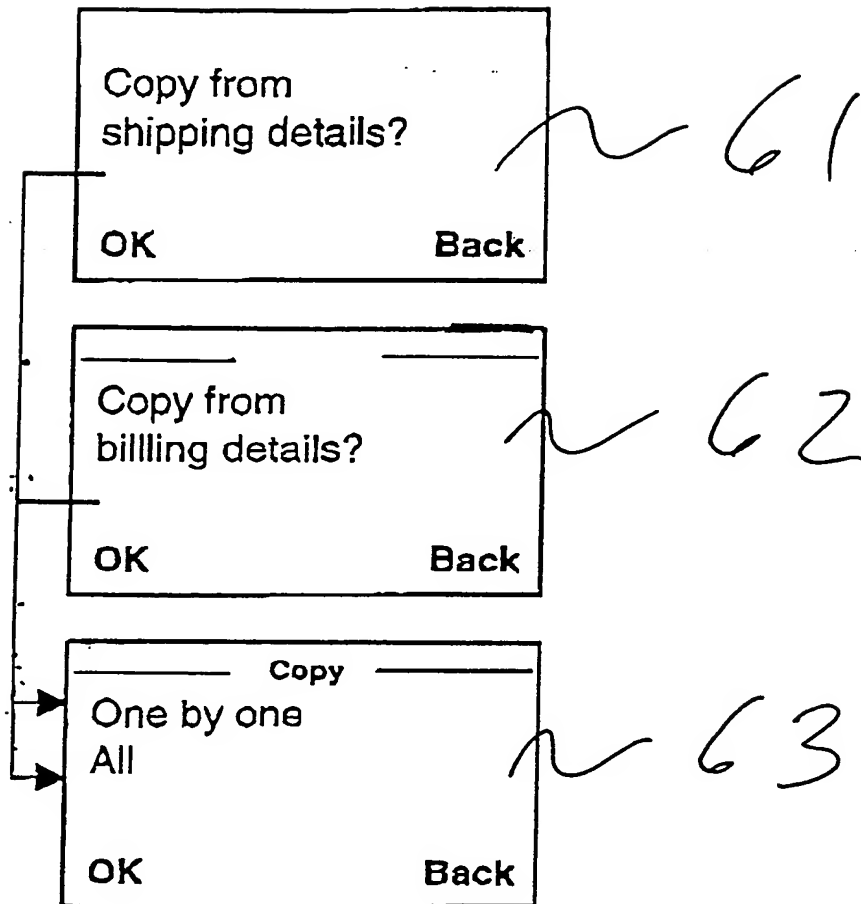


Fig. 6

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